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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,762	09/12/2003	Friedrich Schwamm	038741.52724US	5781

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EXAMINER

NGUYEN, HANH N

ART UNIT PAPER NUMBER

2834

DATE MAILED: 03/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/660,762

Applicant(s)

SCHWAMM, FRIEDRICH

Examiner

Nguyen N. Hanh

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 February 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 6-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 and 11-16 is/are allowed.
- 6) ☒ Claim(s) 7-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Remarks

1. In view of amendments, the Examiner withdraws the rejection to claims 6 and 11-16.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 7-9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Web.

Regarding claim 7, Web discloses an electric drive arrangement comprising: a stator (A1 and A2 in Fig. 1), said stator including U-shaped stator blades (E11 and E12) forming a cylindrical ring (Fig. 4 shows the simplest motor construction of the above structure); and a rotor (S2), said rotor including permanent magnets (w1 and w2) arranged at pole ends of said stator blades; wherein said permanent magnets form two cylindrical rotor elements (Fig. 4), and wherein said stator blades form two cylindrical stator rings, each of said two cylindrical stator rings being arranged at opposite sides of said rotor such that said rotor is laterally surrounded by said two cylindrical stator rings (Fig. 2 and Fig. 4) and wherein said two cylindrical rotor elements extend in a region of said pole ends of said stator blades, and wherein each of said two cylindrical rotor elements has two rings of polarity- alternating magnets (W1' and W1'').

Regarding claim 8, Web also discloses an electric drive arrangement wherein, within each of said two cylindrical rotor elements, adjacent permanent magnets of one of said two rings have different polarity from one another and adjacent permanent magnets of a first and a second of said two rings have different polarity from one another (Fig. 1).

Regarding claim 9, Web also discloses an electric drive arrangement wherein permanent magnets from said first of said two cylindrical rotor elements have different polarity from opposed permanent magnets in said second of said two cylindrical rotor elements (Fig. 1).

Regarding claim 11, Web also shows the electric drive arrangement wherein a first of said two cylindrical rotor elements (La in Fig. 4) includes a first ring of polarity-alternating magnets and a second ring of polarity-alternating magnets (Col. 5, lines 5-8) and wherein a second of said two cylindrical rotor elements (Lb) includes a third ring of polarity-alternating magnets and a fourth ring of polarity-alternating magnets (because each additional ring has two separate rings with opposite polarity).

Regarding claim 12, Web also shows the electric drive arrangement wherein adjacent magnets in said first ring have different polarity from one another, adjacent magnets in said second ring have different polarity from one another, adjacent magnets in said third ring have different polarity from one another, and adjacent magnets in said fourth ring have different polarity from one another (Fig. 1 and Fig. 4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Web in view of Hong.

Regarding claim 10, Web shows all limitations of the claimed invention except showing the electric drive arrangement wherein additional permanent magnets are arranged about said stator blades and about said permanent magnets of said rotor for magnetic centering of said rotor.

However, Hong discloses an electric motor wherein additional permanent magnets are arranged about the stator and about the shaft of the rotor for magnetic centering of said rotor (Fig. 5) for the purpose of preventing frictional contact when the motor is in operating condition.

Since Web and Hong are in the same field of endeavor, the purpose disclosed by Hong would have been recognized in the pertinent art of Web.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Web by arranging additional permanent magnets about the stator blades and about said permanent magnets of the rotor for magnetic centering of said rotor as taught by Hong for the purpose of preventing frictional contact when the motor is in operating condition.

Allowable Subject Matter

4. Claims 6 and 11-16 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not show an electric drive arrangement as described in claim 6 wherein said stator blades form two cylindrical stator rings, each of said two cylindrical stator rings being arranged at opposite sides of said rotor such that said rotor is laterally surrounded by said two cylindrical stator rings and wherein said rotor being disk-shaped.

Response to Arguments

6. Applicant's arguments filed on 2/04/2005 with respect to claim 7 have been fully considered but they are not persuasive. The applicant's argument is on the ground that the limitation "each of said two cylindrical rotor elements has two rings of polarity-alternating magnets" is not taught by Web. The Examiner respectfully disagrees with the Applicant. Figs. 1 and 4 of Web clearly show each of the two cylindrical rotor elements (La or Lb) has two rings of polarity-alternating magnets (the first ring comprising soft iron part W1', W2', W3'....; the second ring comprising soft iron part W1'', W2'', W3''....; and the magnets have alternating polarity).

In short, the claims are given their broadest reasonable interpretation and they still do not clearly and distinctly claim the subject matter of the invention. Therefore, the rejection is still deemed proper.

Conclusion

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (571) 272-2031. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HNN

March 11, 2005

A handwritten signature in black ink, appearing to read 'Dangle', with a stylized flourish at the end.

DANGLE
PRIMARY EXAMINER